

INTERNATIONAL SEARCH REPORT

International application No.
PCT/NZ2004/000330

A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. ⁷ : F16L 55/00, 55/26, B08B 9/02, 9/049. According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC: F16L 55/00, 55/26, B08B 9/02, 9/049. Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched AU IPC: F16L 55/00, 55/26, B08B 9/02, 9/049. Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: IPC (F16L-055/IC OR B08B-009/IC OR E03F-009/IC) and (FEET+ OR FOOT+ OR BRAC+ OR RADIAL+)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
A	US 5080020 A (NEGISHI) 14 January 1992. See entire specification.				
A	DE 19746510 A (PIPETRONIX GMBH) 29 April 1999. See entire specification.				
A	WO 1997-014910 A (SIEMENS AKTIENGESELLSCHAFT) 23 April 1999. See entire specification.				
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex					
<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td style="width: 33%; vertical-align: top;"> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family </td> <td style="width: 33%;"></td> </tr> </table>			* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family				
Date of the actual completion of the international search 4 April 2005.		Date of mailing of the international search report 07 APR 2005			
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer R. WEBER Telephone No : (02) 6283 2546			

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 461964 B (ECOLE SUPERIEURE DES SCIENCES ET TECHNOLOGIES DE L'INGENIEUR DE NANCY) 18 December 1991. See entire specification.	
A	DE 4017368 A (AQUAPLUS- BRUNNENSANIERUNG KATHE MUNDING GMBH) 5 December 1991. See entire specification.	
A	EP 123762 A (REINHART) 7 November 1984. See entire specification.	
A	EP 85504 A (SUBSCAN SYSTEMS LTD) 10 August 1983. See entire specification.	
A	WO 1987 006323 A (DEN NORSKE STATS OLJESELS A/S) 22 October 1987. See entire specification.	
A	US 6076407 A (LEVESQUE ET AL) 20 June 2000. See entire specification.	
A	US 4622709 A (MATSUDA) 18 November 1986. See entire specification.	
A	GB 2159071 A (MATSUDA) 27 November 1985. See entire specification.	
A	Derwent Abstract Accession No. 96350571/35, Class Q42, JP 08165710 A, (MITSUBISHI II JUKOGYO KK.) 25 June 1996. See entire Abstract.	
A	Derwent Abstract Accession No. 2003-324249/31, Class K05, JP 2003093987 A (SAWSAD.) 2 April 2003. See entire Abstract.	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/NZ2004/000330

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US	5080020	JP	3045464	JP	3086679		
DE	19746510	CA	2250799	DE	19746510	NO	984889
WO	1997 014910	NIL					
EP	461964	CA	2044286	FR	2662989	JP	5092765
		US	5142990				
DE	4017368	NIL					
EP	123762	NIL					
WO	1987006323	DE	3612498	DK	651387	EP	264420
		NO	864605	NO	875150	US	4852391
US	6076407	NIL					
US	4622709	AU	41003/85	EP	0159272	JP	60220181
		JP	61093884				
GB	2159071	AU	42895/85	DE	3518584	FR	2564751
		GB	2159071	JP	60248256	US	4602591

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX